"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOGRUDOV, V.A.

Practical testing of student knowledge, skills, and habits.
Fiz. v shkole 23 no.5:75-78 S-O '63. (MIRA 17:1)

1. Pedagogicheskiy institut, Kemerovo.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

TRUFANOVA, A. S., uchitel'nitsa; KHOLODENKO, L. P., uchitel'nitsa; OBLACHKO, V. G., uchitel'nitsa; POLOGRUDOV, V. A. (g. Kemerovo); IOCH, E. V., uchitel'

Editor's mail. Khim. v shkole 17 no.4:87-89 Jl-Ag '62. (MIRA 15:10)

1. Srednyaya shkola No. 26, Orel (for Trufanova). 2. Srednyaya shkola No. 11, Ussuriysk (for Kholodenko). 3. Srednyaya shkola No. 3 Kubanskogo zernosovkhoza Krasnodarskogo kraya (for Oblachko). 4. Kirovskaya srednyaya shkola, Primorskiy kray (for Ioch).

(Chemistry—Study and teaching)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOGRUDOV, V.A. (Kemerovo)

Testing students' knowledge of physics in the senior grades of secondary schools. Fiz. v shkole 22 no.2:71-75 Mr-Ap '62. (MIRA 15:11)

(Physics--Study and teaching)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

L 49271-65 EWT(l)/EWT(m)/EWP(t)/EWP(z)/EWP(b) Pad/Pi-4 IJP(c) JD/HW
ACCESSION NR: AP5009529 S/0048/65/029/003/0490/0492

AUTHOR: Parfianovich, I.A.; Pologrudov, V.V.

TITLE: On the memory effect in the action of an electric field on the luminescence of alkali halide phosphors /Report, 12th Conference on Luminescence held in L'vov, 30 Jan-5 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 3, 1965, 490-492

TOPIC TAGS: luminescence, luminescent crystal, x ray, electric field, sodium chloride, nickel, potassium compound, bromine compound, indium

ABSTRACT: The authors have investigated the effect of pre-exposure to an electric field on the roentgenoluminescence of KBr:In and NaCl:Ni phosphors. The crystal phosphors were subjected to a 1-5 x 10^5 V/cm electric field between electrodes with which they were not in contact and were subsequently excited by 10 keV x-rays. In the case of the KBr:In phosphors the duration of exposure to the electric field was varied from a few seconds to several minutes. Five seconds after the field was removed the exciting x-rays were applied and the time variation of the resulting luminescence was followed. The initial intensity of the lumin-

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L 49271-65

ACCESSION NR: AP5009529

escence was much (up to 11 times) greater than without previous exposure to an electric field. This luminescence decayed rapidly at first, (half-time several tens of seconds) but subsequently increased and reached a maximum one or two minutes after the beginning of the excitation. As a function of duration of exposure to the electric field, the initial intensity of the fluorescence increased rapidly, reached a maximum for an exposure of the order of a few seconds, and decreased with furthur increase of the exposure. The luminescence intensity at the subsequent maximum increased monotonically with duration of exposure to the electric field. The NaCl:Ni phosphors were exposed to the electric field for 6 min and subsequently excited to luminescence by x-ray pulses of 2 sec duration. The intensity of the luminescence flashes was greater when the phosphor was previously exposed to the electric field than when it was not. The maximum intensity of the luminescence flashes was reached approximately one minute after exposure to the field. Orig. art. has: 3 figures.

ASSOCIATION: Irkutskiy gosudarstvenny universitet (Irkutsk State University)

SUBMITTED: 00 ENCL: 00 SUB CODE: OP, SS

NR REF SOV: 004 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

ACC NR: AP7004998 SOURCE CODE: UR/0048/66/030/009/1542/1544

AUTHOR: Pologrudov, V.V.

ORG: Irkutsk State University im. A.A.Zhdanov (Irkutskiy gosudarstvennyy universitet)

TITLE: Effect of an electric field on the luminescence of KI:Tl phosphors /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.30, no.9, 1966, 1542-1544

TOPIC TAGS: luminescence, luminescent crystal, potassium compound, iodide, thallium, luminescence quenching, electric field, temperature dependence, x-ray irradiation

ABSTRACT: The author and E.E.Penzina (Izv. AN SSSR. Ser. fiz., 29, 497 (1965)) have previously found that an electric field tends to quench the photoluminescence of a KI:Tl phosphor excited in the activator absorption bands and tends to enhance the roentgenoluminescence, and have hypothesized that the quenching action is due to an external quenching mechanism and that the enhancement of the roentgenoluminescence is due to reduction by the field of the recombination losses. In the present paper the author presents further experimental results supporting these hypotheses. The apparatus and experimental technique have been described elsewhere by the author and I.A.Parfianovich (Sb. Optika i spektroskopiya, No.1, 317 (1963)). It was found that

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ACC NR: AP7004998

the roentgenoluminescence intensity decreases with increasing temperature from room temperature to 300° C. At temperatures above 50° C (but not at lower temperatures) the relative roentgenoluminescence intensity of a heavily x-irradiated specimen was higher than that of an unirradiated one; this is ascribed to thermal dissociation of radiation-induced defects. The enhancement of the roentgenoluminescence by the action of a 10^5V/cm 400 Hz field decreased with both increasing temperature and increasing activator concentration, and at high temperatures the electric field tended to quench the roentgenoluminescence of specimens having high activator concentrations. The most rapid decrease of the enhancement factor with increasing temperature took place in the same temperature interval from 30 to 80° as did the most rapid drop in the roentgenoluminescence intensity. The interpretation of these findings is discussed. Orig. art. has: 2 figures.

SUB CODE: 20 SUBM DATE: none ORIG. REF: 003

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

PARFIANOVICH, I.A.; POLOGRUDOV, V.V.

Memory effect of the action of an electric field in alkali halide phosphors. Izv. AN SSSR. Ser.fiz. 29 no.3:490-492 Mr '65. (MIRA 18:4)

1. Irkutskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOGRUDOV, V.V.; PENZINA, E.E.

Processes taking place in excited KI - Tl phosphors when placed in an electric field. Izv. AN SSSR. Ser.fiz. 29 no.3:497-499 Mr '65. (MIRA 18:4)

1. Irkutskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

L 28326-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6013091 SOURCE CODE: UR/0048/66/030/004/0719/0721

AUTHOR: Parfianovich, I.A.; Pologrudov, V.V.; Karnaukhov, Ye.N. 46 B

ORG: Irkutsk State University (Irkutskiy gosudarstvennyy universitet)

TITLE: Effect of an electric field on the roentgenoluminescence of NaCl:Cu phosphor /Report, Fourteenth Conference on Luminescence held in Riga 16-23 September 1965/ 21

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 4, 1966, 719-721

TOPIC TAGS: luminescence, electric effect, sodium chloride, crystal phosphor, roentgenoluminescence, electric field, x ray irradiation

ABSTRACT: It is known that an electric field can affect the recombination luminescence of alkali halide phosphors; the electric field may either enhance or quench the luminescence, depending on the composition of the phosphor and the experimental conditions. In some cases, however, both of these effects may occur simultaneously. Such a dual effect, in particular, was observed by the authors in investigating the influence of an electric field on the luminescence of type I centers in NaCl:Cu. The specimens all were grown from a melt (1 mole % copper in the melt) and activated to different degrees by thermal diffusion. The specimens were prepared in the form of single crystal plates (0.18 mm thick) and were mounted between two electrodes: one the furnace rod with a platinum cap and the other a metal grid. The phosphor was excited through

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L 28326-66

ACC NR: AP6013091

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the grid electrode by x rays from a BSV2-Fe tube operated at 20 kV and 15 mA. At the same time there was applied to the crystal specimen a 50 cycle alternating field having a strength of about 10^5 V/cm. The luminescence was isolated by a UFS-1 ultraviolet filter and recorded by an FEU-18A photomultiplier coupled to a mirror galvanometer. The character of the effect of the electric field differs at different sections of the roentgenoluminescence time curve. Thus, for example, for the phosphor with 1 mole % copper during the first seconds of excitation the electric field quenches the luminescence, but with increase of the x-ray dose the quenching is reduced, and some 15-20 sec after the beginning of excitation the luminescence is enhanced at the instant of application of the field. Thus, the quenching and stimulating effects compete. Temperature studies showed that with increase of the temperature the quenching process increasingly dominates and beginning with about 75°C is the only effective one. The following inferences are drawn on the basis of the experimental results regarding the processes that may occur in the crystal incident to application of an electric field. The mechanism responsible for enhancement of the luminescence is release of electrons from shallow traps. With increase of the activator concentration the number of defects relative to the number of luminescence centers is reduced so that the stimulation by the electric field is diminished. Holes are released from the activator trapping levels and drop into the valence band. Migration of weakly bound activator ions also leads to decrease of the luminescence intensity. That such migration occurs follows from the high mobility of copper ions and the existence of a memory effect. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 005/ OTH REF: 002

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L 49270-65 EWT(l)/EWT(m)/EWP(t)/EWP(b) Pi-4 IJP(c) JD
ACCESSION NR: AP5009531 S/0048/65/029/003/0497/0499

AUTHOR: Pologrudov,V.V.; Penzina, E.E.

TITLE: Investigation of the processes occurring in excited thallium activated potassium iodide phosphors upon application of an electric field /Report, 12th Conference on Luminescence held in L'vov 30 Jan-5 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 3, 1965, 497-499

TOPIC TAGS: luminescence, alkali halide, potassium compound, iodine compound, thallium, x ray, photoluminescence, electric field

ABSTRACT: The authors have investigated the influence of a 5 x 10^4 V/cm 50 c/sec electric field on the roentgenoluminescence and photoluminescence of KI:Tl phosphors. The electric field had both a quenching and a stimulating effect on the roentgenoluminescence. When the activator concentration was large (c. 1 mole per cent) and the stimulating x-ray intensity was low, the quenching effect was predominant. Under some conditions both effects could be observed, the fluorescence intensity decreased immediately when the field was applied and subsequently increased beyond its initial value. There are two bands in the photoluminescence spectrum. Thermal

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

L 43270-65

ACCESSION NR: AP5009531

quenching was observed in both bands, and most strongly in the shorter wavelength band; when the temperature was increased from room temperature the photoluminescence intensity decreased and the peaks of both excitation bands shifted toward the longer wavelengths. The thermal quenching was observed as soon as the temperature was raised above room temperature. This is in contradiction with the finding of K.K.Shvarts (Tr. In-ta fiz. i astron. AN EstSSR, No. 7, 153 (1958)). It is suggested that this discrepancy may be due to Shvarts' failure to take account of the shift in the positions of the excitation bands. The results are discussed briefly. The most likely mechanism for the stimulation of the luminescence by an electric field is considered to be the reduction by the action of the field of the number of nonradiative recombinations outside the luminescence centers. More data will be required before the true mechanism can be determined. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: OP, SS

NR REF SOV: 005 OTHER: 005

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

L 13973-65 EWP(e)/EWT(m)/EWP(t)/EWP(b) IJP(c)/AEDC(a)/AS(mp)-2/SSD/AFWL/ASD(a)-5/ASD(m)-3/AFMDC/ESD(c)/RAEM(e)/ESD(t) JD/WH

ACCESSION NR: AP4043010 S/0051/64/017/002/0230/0234

AUTHOR: Pologrudov, V. V.; Penzin, Yu. G.; Penzina, E. E.

TITLE: Electroluminescence of diamonds 15 B

SOURCE: Optika i spektroskopiya, v. 17, no. 2, 1964, 230-234

TOPIC TAGS: diamond, electroluminescence, luminescence brightness, spectral energy distribution, frequency dependence, phosphor

ABSTRACT: The electroluminescence described in the article was observed on diamonds insulated from the electrodes, in contrast to the practice of all earlier researchers who placed the diamond in direct contact with the electrodes so as to improve the conditions for the carrier injection as much as possible. The diamonds were placed in an alternating field so that internal electroluminescence (Destriau effect) was produced. Sixty-four out of 105 samples of Siberian diamonds exhibited a tendency to such luminescence, and

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those which did not luminesce were essentially of regular geometrical form without visible inclusions. The diamonds ranged in thickness from 1 to 5 mm. The exciting voltage came from a step-up transformer operating at 50 cycles. Visible glow was produced at field intensities on the order of 10^3--10^4 v/cm and upward. The tests have shown that at different types of excitation, the same centers participate in the glow, although the ratio of the different bands varies over a wide range. Such a difference in the spectral distribution is credited to the peculiarities of the excitation mechanism in each individual case. The variation of the brightness of the electroluminescence with the electric field intensity was the same for all diamonds, the logarithm of the intensity being inversely proportional to the reciprocal of the square root of the voltage. The frequency dependence of the electroluminescence was investigated at frequencies 250--8000 cps and at voltages from 250 to 600 v. The electroluminescence brightness increased strongly with the frequency at high voltages, but reaches saturation or even a maximum at medium and low

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ACCESSION NR: AP4043010

voltages. Oscillographic studies were also made of the time variation of the brightness during each cycle of the exciting voltage (brightness waves). These brightness waves were shifted in phase relative to the applied voltage, the shift differing with the type of diamond. The results demonstrate that certain types of diamonds indeed exhibit the Destriau effect and that the mechanism of glow of diamond does not differ in an alternating electric field from the electroluminescence of zinc sulfide phosphors, "We are very grateful to E. S. Vilutis for help with the work." Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 21May63 ENCL: 02

SUB CODE: OP NO REF SOV: 006 OTHER: 007

Card 3/5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

L 13973-65

ACCESSION NR: AP4043010

ENCLOSURE: 01

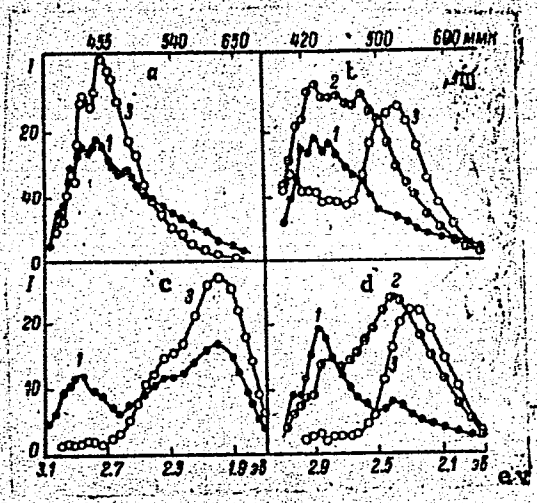

Fig. 1. Electroluminescence

1 - X-ray luminescence; 2 - and photoluminescence; 3 - spectra of diamonds for different interelectrode distances, exciting voltages, and excitation wavelengths

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L 13973-65

ACCESSION NR: AP4043010

ENCLOSURE: 02

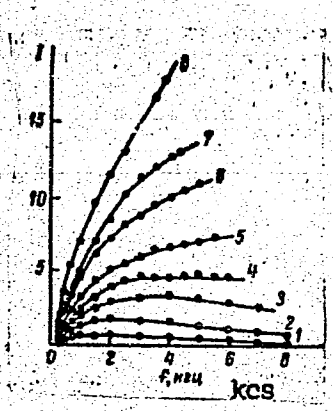

Fig. 2. Dependence of electroluminescence brightness on frequency for one sample at different excitation voltages

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L 19504-63 EWA(h)/EWT(l)/EWP(q)/EWT(m)/EWP(B)/BDS AFFTC/ASD/APGC/AFWL/IJP(C)/SSD WW/JD

ACCESSION NR: AT3002242 S/2941/63/001/000/0317/0320

AUTHORS: Parfianovich, I. A.; Pologrudov, V. V.

TITLE: X-ray electroluminescence of alkali-halide monocrystalline phosphors

SOURCE: Optika i spektroskopiya; sbornik statey. v. 1: Lyuminestsentsiya. Moscow, Izd-vo AN SSSR, 1963, 317-320

TOPIC TAGS: electroluminescence, excitation, electric field, activator

ABSTRACT: A detailed study was made of the x-ray electroluminescence of the monocrystalline phosphors NaCl, NaCl-Cu, KBr, KBr-In^{+}, KBr-In^{3+}, KJ, and KJ-Tl. The specimens were in form of plates placed between a copper electrode and a metallic screen to which a sinusoidal voltage was applied, from 50 cycles to 21 k-cycles at 0 to 1100 volts. It was found that luminescence brightness and the phosphorescence of these alkaline-halides, under x-ray excitation, changed with the variable electric field. Data was obtained relating this effect to the voltage and frequency of the applied field, radiation wave length, and activator concentration. It is shown that the electric field can both enhance and reduce luminescence brightness. Orig. art. has: 4 figures and 2 tables.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

RUMANIA

OLTEANU, M., Lieutenant-Colonel, Medical Corps; CHINTA, Gh., Lieutenant-Colonel, Medical Corps; BOERAS, F., Captain, Medical Corps; and POLOJINTEV, C., Major, Medical Corps.

"Perilimbic "Horseshoe" Prosthesis Favorizing the Performance of the Suture in Perforating Total or Sub-Total Corneal Transplant"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 246

Abstract: Brief description of experimental studies on animals and cadavers, apparently followed clinically in unstated number of patients, with utilization of a plastic prosthesis to assist in the performance of the operation.

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Major, Medical Corps; and MARIETA, Petre, Dr.

"Transplantation of Corneal Layer Homografts with Different Type of Preservation. New Possibilities of Action for the Clarification of the Mechanism

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 243-246

Abstract: Data on 54 operations of corneal transplantation done at Central Military Hospital, Bucharest, in 18 months; local irradiation treatment and pre- and post-operative use of fresh (3) dried (3) lyophilized (1) and cold-stored (18) corneal transplants; use of hydrocortisone, gamma globulin and hyaluronidase topically in order to prevent vasculature from infiltrating the graft. Except in one group of 11 patients with nearly total transplants, results were very promising. 1 table.

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confirmed by 3 to 12 months follow-up in 4 cases, 1 failure in a patient in whom poor attachment of the drainage tube brought about obstruction of the newly created duct.

1/1

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

201. B. Ye. Alekseyev (Moscow): An experimental study of the load carrying capacity of thin-walled nickel tubes subjected to various combinations of tension, torsion, and internal pressure.

202. A. Sh. Mikhlin (Leningrad): Variational methods in the theory of elasticity.

203. A. A. Movchan (Moscow): The stability of motions of solids -- Lyapunov's theorem for solids and its inversion.

204. A. A. Movchan (Moscow): Axisymmetric supersonic flutter of a circular cylindrical shell.

205. B. Ye. Pobedrya (Leningrad): On the uniqueness of the solution of the problem of large deflections of a circular plate under rotationally symmetric loading.

206. G. A. Nikbakhsh (Tbilisi): The determination of the deformation of trusses without diagonals.

207. Sh. M. Mukhtarov (Kazan): A theory of moderately thick plates and shells.

208. A. G. Bazant (Prague): Some problems in the theory of shell stability.

209. G. D. Gladi (Tbilisi): Vibrations of an elastic circular cylindrical shell under concentrated impact loading.

210. G. E. Gigel (Tbilisi): More accurate equations of motion for circular cylindrical shells.

211. Ya. Ya. Rikhtin (Leningrad): Approximate treatment of cylindrical shells under concentrated loads.

212. A. P. Filippov (Moscow): Redistribution of reactions at the edges of a uniformly supported rectangular plate under gradually increasing loading.

213. M. Wrobel (Warsaw): Some dynamical problems of thermoelasticity.

214. E. I. Grigolyuk (Leningrad): Complete completion of a wave field in homogeneous elastic media with parallel plane boundaries.

215. Ya. I. Fridman (Moscow): Investigation of the viscous behavior of elastic, visco-plastic materials in vibrations.

216. Ya. I. Fridman, I. A. Shishkin (Gorkiy): Problems of the non-linear theory of elasticity.

217. I. F. Obraztsov (Moscow): An application of [illegible] variational method to the design [illegible] structures.

218. Ya. G. Panovko (Kiev): The method of electroplating and its applications.

219. M. Ghosh (Warsaw): Two-dimensional problems in the theory of plasticity of non-homogeneous and anisotropic media.

220. V. G. Gilyov (Moscow): The state of stress in a deformed curved bar.

221. V. Ya. Partsiakon (Leningrad): A membrane theory for a toroidal shell.

222. V. P. Parkov (Moscow): Creep, elastic properties and anisotropy of plastic lubricants.

223. G. Ya. Polshchuk (Tbilisi): A practical method of designing reinforced concrete structures with reference to creep.

224. Ya. G. Panovko (Kiev): The problem of structural damping.

225. P. P. Perlin (Moscow): An approximate method for solving elastic-plastic problems.

226. P. P. Perlin, I. A. Shifman (Moscow): Application of the theory of yield; plastic solids to problems of metal forming.

227. A. Sh. Polshchuk (Kiev): On the axisymmetric problem of the theory of elasticity.

228. D. D. Polshin (Moscow): A method for studying the plane field of relative volume strains in soils.

229. O. Ya. Popov (Sverdlovsk): The application of some new methods of the theory of integral equations to the solution of contact problems of the theory of elasticity.

230. V. A. Postnov (Leningrad): Free and forced vibrations of frames taking into account shear deformations and energy dissipation.

231. N. F. Petrunin (Novgorod): Investigation and calculation of internal friction in elastic members of vibrating machines.

232. M. Prager (Providence): An elementary discussion of definitions of stress rate.

233. B. I. Prigorovskiy (Moscow): Photoelastic investigation of stresses in three-dimensional layered models.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOKHIN, P. N.

Methods for soldering aluminum used in the manufacture of instruments. Priborostroenie no.11:31-32 N '61. (MIRA 14:10)
(Solder and soldering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOKHIN, P.N.

Soldering of aluminum in the manufacture of appliances.
Mashinostroene 11 no.5:30-31 My '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOKHIN, P.N.

Methods of aluminum soldering in the construction of instruments. Ratsionalizatsiia no.2:24-25 '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

ARKHIPOV, V.V.; POLOKHIN, P.N.

Recording devices. Priborostroenie no.1:26-29 Ja '60.
(MIRA 13:5)
(Recording instruments)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

1.2400

29337
S/119/61/000/011/005/005
D209/D301

AUTHOR: Polokhin, P.N. Engineer

TITLE: Methods of aluminum soldering in the instrument industry

PERIODICAL: Priborostroyeniye, no.11, 1961, 31-32

TEXT: In order to replace the expensive copper conductors by aluminum and its alloys in industry a telecommunication research institute in Czechoslovakia developed a reduction method of soldering of thin aluminum alloy conductors and foils (Al-Cu-Mg; Al-Mg-Si; Al-Cu-Ni). The method is based on the capacity of the reducing solution to dissolve the aluminum oxide film and deposit 2-3 μ k layer of nickel or zinc on the clean surface. The nickel solution working at 20°C proved to be best. The process is completed in 30-40 sec. The solution contains 400 g/l of nickel chloride, 20 g/l of hydrofluoric acid and

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material. The solder utilized in the tinning process consists of a zinc, cadmium and lead alloy. The alloy containing 60% cadmium and 40% of tin (melting point + 235°C) was found to be the best. Siemens recommend pure tin (99.9%). In order to increase the electrical conductivity of the soldered junction 0.5 - 1% of silver is added to the solder. There are 4 figures and 2 Soviet-bloc references.

Card 3/3

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

ZAYTSEV, L.A., inzh.; [illegible], V.P., inzh.

Method of approximate power analysis of the fabric-moving mechanism of Class 22 sewing machine. Izv.vys.ucheb.zav.;tekh.leg.prom. no.4:136-146 '61. (MIRA 14:10)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova. Rekomendovana kafedroy proyektirovaniya tekstil'nykh mashin.
(Sewing machines--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOKHOV, V.

Dike complex in the Kavalerove ore region. Biul. MOIP. Otd. geol. 34 no.6:143 N-D '59. (MIRA 14:3)
(Kavalerovo region--Dikes(Geology))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOKHOV, V.P.

Alabandite and other manganese minerals from a cassiterite-sulfide deposit in the southern Maritime Territory. Izv. vys. ucheb. zav.; geol. i razv. 2 no.7:80-88 Jl '59 (MIRA 13:3)

1. Krasnoyarskiy institut tsvetnykh metallov i zolota.
(Maritime Territory--Manganese)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

L 44415-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6021367 (A) SOURCE CODE: UR/0342/66/000/003/0071/0072

AUTHOR: Smirnov, L. S., (Director, Candidate of Technical Sciences); Polokhova, S. S., (Senior Research Associate)

ORG: Ukrainian Scientific Research Institute for the Processing of Artificial and Synthetic Fibers. [UkrNIIPV] (Nauchno-issledovatel' skiy institut po pererabotke iskusstevennykh i sinteticheskikh volokon)

TITLE: Some physicomechanical properties of bulked yarns

SOURCE: Tekstil' naya promyshlennost' , no. 3, 1966, 71-72

TOPIC TAGS: bulked yarn, chemical filament, banlon fiber, elastic fiber, meron fiber, fluflon fiber, agilon fiber, spun fiber chemical fiber, crimp

ABSTRACT: The article describes tests made to determine the amount of crimp and the elasticity of various types of bulked yarns, including fluffy, elastic, and meron yarns from the USSR and banlon, fluflon, agilon, and spun yarn from the USA. The amount of crimp was determined by a method developed at the Central Scientific Research Institute for Wool, (TsNIIShersti) mentioned in another work

Card 1/2 UDC: 677.494.001.4

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOKOWSKI, N. N.

916 MANUFACTURE OF QUALITY STEEL IN RUSSIA, N. N. Polokowski, Univ. College; METAL PROGRESS Mar '51 (59.3 Metals); pp 389-393; 1 ill.

The author tells of some of the difficulties the steelmaker faces in the "workers' paradise," some of them due to the necessity of conforming—at least ostensibly—to official regulations governing details of technical practice worked out to cover ideal situations. There is little that is novel or outstanding in the Russian iron and steel industry, which could be considered as an advance when compared with Western practice. The quality of raw and auxiliary materials is often low. Metallurgists must labor with high-ash coke, fuel oil with up to 2% sulfur, and admittedly poor refractories—particularly dinas bricks. Tools are scarce, control instruments crude, and spares are usually difficult to get. Considering all this, one has to give much credit to Russian engineers and craftsmen who produce usable steel under difficult conditions.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMAC, Ljubodrag; BOGDANOV, Dusko

Application of the machines of a punched card system to the material bookkeeping. Mehanografija 2 no.3:9-21 Mr '61.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

SMRCKA, J.; POLOMIS, V.

Some observations on ulcers. Cas. lek. cesk. 102 no.11:281-287 15 Mr '63.

1. II. vnitrni oddeleni Ustredni vojenske nemocnice v Praze, prednosta MUDr. J. Smrcka.
(PEPTIC ULCER) (STRESS) (APPENDICITIS) (SMOKING)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

HAUER, J.; FRKAL, A.; POLOMIS, V.

Gastrointestinal hemorrhage as a complication of steroid therapy. Cesk. gastroent. vyz. 19 no.6:340-345 S '65.

1. II. vnitrni oddeleni UVN v Praze (vedouci MUDr. J. Smrcka).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

SMRCKA, Jiri; POLOMIS, Vaclav

Our experiences with bronchopneumonia. Cas. lek. cesk. 97 no.14: 439-445 4 Apr 58.

1. II. vnitrni oddeleni UVN v Praze-Stresovicich, prednostu Dr. Jiri Smrcka. J. S., Praha-Stresovice, Na Vetrniku 1550.
(BRONCHOPNEUMONIA, differ. diag.
from other types of pneumonia (Cz))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

SMRCKA, Jiri; POLOMIS, Vaclav

Rheumatic pneumonia. Cas. lek. cesk. 97 no.14:445-451 4 Apr 58.

1. II. vnitrni oddeleni UVN v Praze-Stresovicich, prednosta Dr. Jiri Smrcka. J. S., Praha-Stresovice, UVN.
(PNEUMONIA
rheum. (Cz))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

SMRCKA, J.; BRET, J.; HAUER, J.; POLOMIS, V.

Contribution to the diagnosis and therapy of liver metastases of a nesidioma. Cas. Lek. Cesk. 103 no.17:477-478 Ap 24 '64.

1. II. vnitrni oddeleni UVN v Praze (vedouci MUDr. J. Smrcka) a Rentgenologicke oddeleni UVN v Praze (vedouci MUDr. F. Sykora).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

TUREK,J.; SKALA,I.; POLOMISOVA,L.; Technicka spoluprace: LAMACOVA,L.

Our experiences with a new cholinolytic, oxyphenhydrazonium bromide (VUFB 3118). Cas.lek. cesk. 103 no.8:209-213 21 F'64.

1. I. interni oddeleni Phomayerovy nemocnice, Praha-Krc; vedouci: MUDr. J.A.Trojan); Ustav pro vyzkum vyzivy lidu v Praze (reditel: prof.dr. J. Masek) a Ocni oddeleni Thomayerovy nemocnice, Praha-Krc (vedouci: MUDr.M.Exnerova).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMISOVA, Libuse; STOJANOVA, Alena

Cortisone and ACTH therapy of eye diseases. Cesk. ofth. 15 no.2:131-137 Apr 59.

1. Ocni oddeleni Thomayerovy nemocnice v Praze 14, prednosta MUDr. Marie Exnerova.

(EYE DISEASE, ther.
ACTH & cortisone, review (Cz))
(ACTH, ther. use,
eye dis., review (Cz))
(CORTISONE, ther. use,
same)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMISOVA, Libuse, MUDr.

Personal experiences with diamox. Cesk. ofth. 13 no.5:379-381 Sept 57.

1. Ocni oddeleni Thomayerovy nemocnice V Praze 14, prednosta prim. Dr. Marie Exnerova.

(ACETAZOLAMIDE, ther. use
glaucoma (Cz))
(GLAUCOMA, ther.
acetazolamide (Cz))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKI, Eugeniusz

Necrosis of bones following electric burns. Pol. przegl. chir. 37 no.7:685-688 Jl '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr. S. Nowicki).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKI, Eugeniusz

Vasomotor changes following adrenalectomy in Raynaud's disease. Pol. przegl. chir. 37 no.9:845-852 S '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr. St. Nowicki).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKI, Jozef, mgr.,inz; SERBENSKI, Andrzej, inz.; ANGRES, Herbert, inz.

Changes in the process of preparing charge mixtrues for coke production. Energetyka przem 10 no.3:106 '62.

1. Zaklady Koksownicze "Jadwiga", Zabrze-Biskupice.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKI, Z.

Identification cards in blood banks. Szpital.polsk. 3 no.4:583-586 1950.
(CLML 20:6)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKI, Z.

"Herbs cure; Degrosan helps obese people", p. 10, (ZDROWIE, Vol. 5, No. 8, 1953, Warszawa, Poland)

SO: Monthly List of European Accessions, L.C., Vol. 3, No. 4, April, 1954

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKY, Pavel, inz.

Applying the 1942 coordinate system on mine maps. Geol pruzkum 6 no.5:149-150,154 My '64.

1. Geologicky prieskum National Enterprise, Zilina.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKY, Pavel. inz.

Control of the parameters of shaft mining equipment. Geol pruzkum 6 no.2:39-41 F'64

1. Geologicky prieskum, n.p., Zilina.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLOMSKY, Pavel, inz.

Observation on landslides near Banovce nad Betravou. Geol pruzkum 5 no.7:206-207 Jl '63.

1. Geologicky prieskum, n.p., Zilina.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONCHUK, F.M.

USSR/ Engineering - Cutting tools

Card 1/1 : Pub. 128 - 12/25

Authors : Brushteyn, B. E., and Polonchuk, F. M.

Title : A new type of chip breaker

Periodical : Vest. mash. 1, 62-63, Jan 1954

Abstract : A description is presented of two newly designed chip breakers with curvilinear cutting edges made of type 45 steel. These chip breakers are designed for cutting alloy and carbon steels at feeds of $\simeq 0.08 \div 2$ mm/rotation, and cutting speeds of $\simeq 50 \div 600$ mm/min. Drawings.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

POLONCHUK, N.S. [Palanchuk, N.S.]

Relation between the current growth of oak and the development of assimilation apparatus and root system. Vestsi AN BSSR. Ser. biial. nav. no.2:11-15 '65. (MIRA 18:12)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONCHUK, N.S.

Pure and mixed plantations of oak in oak-dominant forests with optimum soil moisture. Bot.; issl.Bel.otd.VBO no.7:129-138 '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

KOLOTILOVA, L.V.; POLONCHUK, T.M.; SILINA, S.F.

Comparative data on whooping cough incidence in children vaccinated and unvaccinated with antipertussis preparations. Zhur. mikrobiol., epid. i immun. 41 no.4:25-29 Ap '64. (MIRA 18:4)

1. L'vovskiy institut epidemiologii, mikrobiologii i gigiyeny.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

HORNUNG, Stanislaw; KOWALCZYKOWA, Janina; PARYSKI, Edwin; KULIG, Andrzej; LATAK, Zofia; POLONCZYK, Mieczyslaw; WASOWICZ, Anna

The course and morphological picture of experimental tuberculosis in guinea pigs produced by the strains of Mycobacterium tuberculosis isolated from patients treated by INH. Gruzlica 27 no.7:621-640 Jl.'59.

1. Z Kliniki Ftyzjatrycznej A.M. w Krakowie. Kierownik: prof.dr S. Hornung; z Zakladu Anatomii Patologicznej w Krakozie. Kierownik: prof.dr J. Kowalczykowa i Z Sanatorium im. Chalubinskiego w Zakopanem. Dyrektor: dr E. Paryski.
(TUBERCULOSIS exper.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

HORNUNG, Stanislaw; KOWALCZYKOWA, Janina; KULIG, Andrzej; POLONCZYK, Mieczyslaw; ROKITA, Zofia; SMACZNA, Danuta.

Effect of INH and SM therapy of experimental tuberculosis caused by strains with a low INH-resistance. Gruzlica 31 no.12:1177-1184 D'63.

1. Z Kliniki Ftizjatrycznej (kierownik: prof. dr. St.Hornung) i z Zakladu Anatomii Patologicznej AM w Krakowie (kierownik: prof. dr. J.Kowalczykowa).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONCZYK, Mieczyslaw

HORNUNG, Stanislaw; AMALOWICZ, Franciszek; BRODA, Zbigniew; NIECIUK-SZCZERBINSKI, Zbigniew; PANYSKI, Edwin; POLONCZYK, Mieczyslaw; RAPF, Tadeusz

Results of team research on the effects of bromsalicylhydroxamic acid, T 40, on drug resistance in tuberculosis. Gruzlica 25 no.9:702-708 Sept 57.

1. Z Instytutu Gruzlicy w Warszawie, Kliniki Ftiziatrycznej A. M. w Krakowie Sanatoriow v Bulowicach, w Gornie, w Wysokiej Lace, im. Chalubinskiego w Zakopanem.

(TUBERCULOSIS, ther.
salicylohydroxamic acid, eff. on isoniazid & PAS resist. patients (Pol))
(SALICYLIC ACID, related cpds.
salicylohydroxamic acid ther. of tuberc., eff. on isoniazid & PAS resist. patients (Pol))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONCZYK, M.

POLAND/Pharmacology and Toxicology - Chemotherapeutic Preparations. V-9
Antituberculatic Drugs.

Abs Jour : Ref Zhur - Biol., No 14, 1958, 66424

Author : Hornung, S., Poloneczyk, M., Rapf, T.
Inst : -
Title : The Results of a Study of the Inhibitory Effect of the Preparation T40 (Sodium Salt of Bronsalicylohydroxamic Acid) on Drug Resistance in Tuberculosis.

Orig Pub : Gruzlica, 1956, 24, No 5, 335-339.

Abstract : A study was made of the sensitivity of tubercle bacilli (TB) to isoniazid (I) and streptomycin (II) in a combined treatment with T40. Thirty-five patients were under observation during the course of treatment. The resistance of bacteria, from the sputum, to (I) and (II) was determined (the methods are outlined). After the treatment which lasted 2-5 months, TB were found in the sputum of all patients. The author believe that in this method of

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

HORNUNG, Stanislaw; POLONCZYK, Mieczyslaw; DELOFF, Leonard; DERUBSKA, Barbara; GARNUSZEWSKI, Zbigniew; JAROSZEWICZ, Wiwa; JAWORSKI, Jan; MYSAKOWSKA, Helena; PARYSKI, Edwin; PECAK, Wladyslaw; PREGOWSKI, Wladyslaw; SOSNOWSKI, Waclaw; WESTFAL, Irena; ZIERSKI, Marian

Primary resistance to basic antitubercular drugs in pulmonary tuberculosis patients observed in Poland during the period of 1961-1962. Gruzlica 32 no.8:629-636 Ag '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

HORNUNG, Stanislaw; POLONCZYK, Mieczyslaw; RAPF, Tadeusz

Effect of investigations on the effect of the preparation T-40 (sodium salt of bromosalicylohydroxamic acid) on drug resistance of tuberculosis; preliminary communication. Gruzlica 24 no.5: 335-339 May 56.

1. Z Kliniki Ftyjatrycznej A.M. w Krakowie Kierownik: prof. dr. St. Hornung.

(SALICYLIC ACID, related compounds,
salicylohydroxemic acid, ther. of tuberc. resist. to other drugs (Pol))
(TUBERCULOSIS, therapy,
salicylohydroxamic acid in cases resist. to other drugs (Pol))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

HORNUNG, Stanislaw; POLONCZYK, Mieczyslaw

Primary resistance to principal drugs in patients with pulmonary tuberculosis. Gruzlica 30 no.4:349-358 '62.

1. Na podstawie materialow dostarczonych przez: Kliniki AM, SDL w Bialymstoku Krakowie, Lublinie, Lodzi i Zabrzu, Instytut Gruzlicy w Warszawie oraz Sanatorium w Rabce i w Zakopanem.

(ANTITUBERCULAR AGENTS ther)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

HORNUNG, Stanislaw; [illegible]

The course and morphological picture of experimental tuberculosis in guinea pigs produced with strains of Mycobacterium tuberculosis isolated from INH treated patients. III. Effect of the treatment with large doses of INH on experimental tuberculosis caused by strains with low INH resistance. Gruzlica 32 no.5:423-429 My '64.

1. Z Kliniki Ftiziatrycznej (Kierownik: prof. dr. S. Hornung) i z Zakladu Anatomii Patologicznej Akademii Medycznej w Krakowie (Kierownik: prof. dr. J. Nowakowska).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONEC, A.

Organization of the commercial life of linen weavers in the Upper Orava region. p. 49.
SLOVENSKY NARODOPIS, Bratislava, Vol. 3, no. 1, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLO[illegible], A.

Polonec, A. Examination of the commercial life of linen [illegible] by the Uzhen Cuvva region. S. 40. SLOVENSKY HAVOBCHOD. Bratislava. Vol. 3, no. 1, 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4, no. 10, Oct. 1955. Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONETS, Galina [Polonets', Halyna], zven'yevaya

Lavish gifts of our land. Znan.ta pratsia no.2:8-9 F '60.
(MIRA 13:5)

1. Kolkhoz im. Leninskogo komsomola Ruzhinskogo rayona, Zhitomirskaya oblast'.
(Ruzhin District--Corn(Maize))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONETSKAYA, B.N.

Ultrahigh frequency therapy in the compound treatment of Botkin's disease. Vop. kur., fizioter. i lech. fiz. kul't. 30 no.4:315-318 Jl-Ag '65. (MIRA 18:9)

1. Fizioterapevticheskoye otdeleniye (zav. B.N. Polonetskaya) Murmanskoy oblastnoy bol'nitsy (glavnyy vrach A.F. Pavlova).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

TSINTSERLING, A.V.; POLONSKAYA, Ye.V.; TARASOVA, A.P.; LYUBAVIN, A.R.; NABOKOVA, Ye.R.; MASLENNIKOVA. L.K.; MAYOROVA, L.P. (Leningrad)

Pathological anatomy of adenovirus lesions of the lungs in children. Arkh. pat. 27 no.10:21-28 '65. (MIRA 18:10)

1. Institut detskikh infektsiy i Institut imeni Pastera, Detskaya bol'nitsa imeni N.F.Filatova, Detskaya bol'nitsa imeni Simbalina i 1-ya detskaya bol'nitsa Oktyabr'skogo rayona, Leningrad.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONETSKIY, S. D.

35381 Mekhanizatsiya Gnezdovogo Poseva Lesnykh Kultur. Les I Step', 1949, No. 5, S. 65-66

SO: Letopis' Zhurnal'nykh Statey Vol. 34, Moskva, 1949

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

MAN'KOV, D.F.; OREKHOV, N.I.; POLONETSKIY, S.D.; NELYUBOVA, Ye.I., red.; DUDAKOV, V.A., tekhn. red.; OKOLELOVA, Z.P., tekhn. red.

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MANUKOVSKIY, N.F.; POLONETSKIY, S.D.; OREKHOV, N.I.; SYCHEV, A.F.; BOLDYREV, M.D.; SEMENOV, V.M., nauchnyy red.; KRYUCHKOV, V.L., red.; CHIRKOV, A.Ya., red.; PERSON, M.N., tekhn. red.

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(Corn (Maize)) (Farm mechanization)

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Geologic research in the Gura Humorului-Draceni region. Dari seama sed 47:239-252 '59/60 [publ. '62].

Constributions to the geologic study of the Chiuzbaia (Baia Mare) region. Ibid. 253-262.

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POLONIC, P.; POLONIC, Gabriela

Geologic research in the Gura Humorului-Draceni region. Dari seama sed 47:239-252 '59/60 [publ. '62].

Constributions to the geologic study of the Chiuzbaia (Baia Mare) region. Ibid. 253-262.

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Preparing steel shavings for use as steel furnace charge. Mashinostroitel' no.10:41 O '57. (MIRA 10:11)
(Steel--Metallurgy)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

FOLONIK, A. I.

PA 195T59

USSR/Metals - Foundry, Methods May 51

"Hydraulic Cleaning of Castings and Recovery of Molding Sand," A. V. Kiselev, Laureate of Stalin Prize, A. I. Folonik, Engineers, Uralmashzavod

"Litey Proizvod" No 5, pp 15, 16

Complex installation consists of 6 x 7 x 4-m hydraulic chamber with high-pressure pump, receiver for pulp, mechanisms for pumping pulp on recovering installation, installation itself, settling tank for used water and receivers for

195T59

USSR/Metals - Foundry, Methods (Contd) May 51

recovered sand and sludge. Recovery of sand amts to 75% with av productive capacity approximately 4 cu m/hr. Operation requires 5 men.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

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POLONIK, A.I.; CHIMINOV, V.V.

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(Steel castings) (Bearings (Machinery))

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23357 organichitel' zholostogo zhoda. tekstil. prom-St', 1949, No. 7, c. 39-40

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, P.A.

34005 POLONIK, P.A. Dnyevnoy Svyet
Na Fabrikye Tyekstil Prom-st
1949, No. 10. S. 37-38

SO: Letopis' Zhurnal'nykh Statey, Vol. 42, Moskva, 1949

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POLONIK, P.A.

SOSNO SKIY, Andrey Anan'yevich; POLONIK, Pavel Arten'yevich, inzhener. KHOKHLOV, Viktor Dmit'riyevich, inzhener; SHTEYNBOK, G.Yu., inzhener, nauchchiy redaktor; BRYANTSEVA, V.P., inzhener, vedushchiy redaktor; VUL'MAN, G.L., inzhener, redaktor; POROMOREV, V.A., tekhnicheskiy redaktor.

[Instrument for recording positions of transmitting synchros and potentiometric transmitters] Pribor dlia zapisi polozheniia sel'sinnykh i potentsiometricheskikh datchikov. Pribory dlia obnaruzheniia i izmereriia elektro-staticheskikh zariadov na tekstil'nykh materialakh. Moskva, 1956. 19 p. (Pribory i stendy. Tsne 5m no.P-56-526) (MLRA 10:10)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii. Filial.
(Recording instruments) (Textile fabrics--Electric properties)

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POLONIK, P.A., inzhener.

Daylighting in shops with shed roofs. Tekst.prom. 16 no.4:53 Ap '56. (Textile factories--Lighting) (MLRA 9:7)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, K.A.

21(8)

Sponsoring Agencies: Komitet [illegible] po ispol'zovaniyu atomnoy energii, and Akademiya nauk SSSR.

Editorial Board of Sci: V.I. Dikunin, Academician (Resp. Ed.), K.M. Shumilovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), L.K. Tatochenko, B.I. Verkhovskiy, S.T. Kazarov, L.I. Petrenko, and K.O. Zelvinskaya (Secretary).

Ed. of Publishing House: P.M. Belyanin; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Auzan, Ya. A., V.N. Banashek, Kh.K. Gunne, I.M. Takser, A.D. Tumilovich, and V.A. Yanushkovskiy (Institut fiziki AN Latviyskoy SSR; zavody "VEF" Kompressor" [Optimal' - Institute of Physics, Academy of Sciences, Latvian SSR; "VEF", "Kompressor", and "Dzintars" Plants). Automation and Control Equipment With Radioactive Relays 259

Segalin, V.O. (Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut - All-Union Scientific Coal Institute). Gamma Relay With Crystal Triodes 264

Klempner, K.S. Evaluation of the Minimum Necessary Charge of Counters in a Gamma Relay 266

Shumilovskiy, K.M., Yu.V. Gushchin, and M. I. Tolokonnikov (Institut avtomatiki i telemekhaniki AN SSSR - Institute of Automation and Telemechanics, Academy of Sciences, USSR). Use of Radioactive Isotopes for the Automatic Control of the Flow of Liquids 267

Krzhanovskiy, V.V., I.I. Saf'yants, and V.A. Yanushkovskiy (Institut fiziki Akademii nauk Latviyskoy SSR i Leningradskiy staleprokatnyy zavod - Institute of Physics, Academy of Sciences, Latvian SSR; Leningrad Steel Rolling Mill). Use of Short-lived Isotopes in the Control of the Process of Steel Strip Manufacture 271

Shumilovskiy, K.M., and L.V. Mel'tser (Institut avtomatiki i telemekhaniki AN SSSR - Institute of Automation and Telemechanics, Academy of Sciences, USSR). Use of Radioactive Radiations in the Noncontact Control of the Volume and Velocity of a Stream of Gas 276

Rabo, Ya. Ya., and D.M. Ziv. Use of Alpha Emitters for the Measurement of Gas Density 280

Yordan, G.G., K.S. Furman, and T.G. Norman (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya - Scientific Research Institute for Heat-Power Instrument Making). Equipment for the Automatic Control of Gas Flow by Means of Beta Radiation 286

Polonik, K.A., L.V. Mel'tser, and M.I. Panyukov (Tsentral'nyy nauchno-issledovatel'skiy institut shelkovoy promyshlennosti - Central Scientific Research Institute of the Silk Industry). Use of Radioactive Isotopes for the Dissipation of Electrostatic Charges in the Silk Industry 289

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, P.A., inzhener.

Effective lighting system of weaving mills. Tekst.prom. 17 no.6:48-51 Je '57. (MLRA 10:7)
(Textile factories--Lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

AUTHOR: Polonik, P. A., Engineer SOV/105-58-8-4/21

TITLE: Electric Properties of Artificial and Synthetic Fibers (Elektricheskiye svoystva iskusstvennykh i sinteticheskikh volokon)

PERIODICAL: Elektrichestvo, 1958, Nr 8, pp. 17-21 (USSR)

ABSTRACT: The humidity content in fibers has a decisive influence on its specific resistance and on the electrification. The humidity, however, in a defined manner is connected with atmospheric humidity. The measurement of the specific resistance is described, that of oily fibers used for a reduction of electrification during working as well as that of fibers without oil at different relative humidities. Measurements were conducted by means of a ballistic galvanometer. The measuring method and the production of the samples is described. The experiments show, that to each fiber a certain limit charge is coordinated under certain external conditions. This limit of charge density is explained as follows: 1) The double layer between surfaces which are in contact can be considered as a condenser with a very high capacity, in which the field strength may reach values

Card 1/2

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Electric Properties of Artificial and Synthetic Fibers SOV/105-58-8-1/21

of 10^7 V/cm. 2) The second cause for this phenomenon is the leakage, as every dielectric has a certain, however small conductivity. A method of measuring the electrification of the fibers is described. As a summary it is stated: 1) All artificial and synthetic fibers are considerably polarized during working. The charge on the respective fiber is dependent upon the relative humidity and the velocity of the motion of the fiber. 2) No connection exists between the specific resistance of the fibers and its electrification. A complete dependence exists between the specific resistance of the fiber and the leakage. 3) Only viscous and acetate fibers can be worked without disturbances caused by static electricity at $\varphi = 65\%$, where φ denotes the relative atmospheric humidity. In the working of synthetic fibers they must be kept for 20-30 hours at $\varphi = 75\%$ and more in order to neutralize the charges. Otherwise an ionization of the air must be applied. There are 7 figues, 2 tables, and 6 references, all of which are Soviet.

Card 2/2 Cent. Sci Res. Inst. of Silk

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

KHOKHLOV, V.D.; POLONIK, P.A.

High-frequency ionizers used for neutralizing static electricity charges. Biul.tekh.-ekon.inform. no.11:47-48 '58. (MIRA 11:12)

(Ionization of gases) (Electrostatics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, P.A., inzh.

More on the efficiency of lighting systems in weaving plants.
Tekst. prom. 18 no.11:35-36 N '58. (MIRA 11:12)
(Textile factories--Lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, P.A., inzh.; KHOKHLOV, V.D., inzh.

Instruments for measuring and neutralizing charges of static electricity. Leg.prom. 18 no.12:32-35 D '58. (MIRA 11:12)
(Electric meters)

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ANDRASOV, Viktor Fedorovich; BERSHEV, Yevgeniy Nikitich; POLONIK, P.A., retsenzent; DUKHOVNYY, F.N., red.

[Electrostatic nap coating of fabrics] Elektrostaticheskoe vorsovanie. Moskva, Legkaia industriia, 1965. 62 p. (MIRA 18:3)

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POLONIK, Pavel Artem'yevich; SHVYREV, S.S., red.; SOKOLOVA, V.Ye., red.; KNAKNIN, M.T., tekhn.red.

[Electrifiable nature of synthetic fibers and its control] Elektrizuemost' khimicheskikh volokon i bor'ba s nei. Pod red. S.S.Shvyreva. Moskva, Nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 94 p. (MIRA 13:3)
(Textile fibers, Synthetic) (Electrostatics)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

Serebryakova, Z.G.

15(4).

307/59-4-1-21/31

AUTHOR: Serebryakova, Z.G.

TITLE: Conference on the Application of Textile-Auxiliary Substances in the Industry of Chemical Fibers (Soveshchaniye o primenenii tekstil'no-vspomogatel'nykh veshchestv v proizvodstve khimicheskikh volokon)

PERIODICAL: Khimicheskaya nauka i proizvodstvo, 1959, Vol 4, Nr 1, pp 130-131 (USSR)

ABSTRACT: The section for artificial fibers of the All-Union Chemical Society imeni D.I. Mendeleyev organized a conference in Moscow on the application of textile-auxiliary substances in the industry of chemical fibers. It was attended by more than 200 representatives of plants, scientific research institutes, the State Plan Commission of the USSR, the Scientific Technical State Plan Committee for Chemistry, the National Economic Councils, and by scientists of the German Democratic Republic. The conference heard the following reports:

Card 1/3

The section for artificial fibers of the All-Union Chemical Society imeni D.I. Mendeleyev organized a conference in Moscow on the application of textile-auxiliary substances in the industry of chemical fibers. It was attended by more than 200 representatives of plants, scientific research institutes, the State Plan Commission of the USSR, the Scientific Technical State Plan Committee for Chemistry, the National Economic Councils, and by scientists of the German Democratic Republic. The conference heard the following reports:

X Serebryakova (VNIIV) on the characteristic of different textile-auxiliary substances and the fields of their application in the industry of artificial and synthetic fibers; K.G. Klauch (GIGTIA) on investigations on the development of the assortment of textile-auxiliary substances; A.Yu. Rabinovich on the synthesis of surface-active substances and the detergents made from them; P.K. Pandov (Chemical Plant imeni Baturin) on the perspective of producing textile-auxiliary substances at the Chemical Plant imeni Baturin; D.Ts. Kanter (VNIIV) on the application of auxiliary substances in the dyeing of chemical fibers by means of introducing the dyes into the spinning solutions; Ye.P. Filatova (TsNIISherstl) on the study of the effect of textile-auxiliary substances on the physical-mechanical properties of fibers (TsNIIKhB) on the effect of different emulsions of textile-auxiliary substances on the processing of artificial and synthetic staple fiber in cotton-spinning equipment; M.V. Filatova (TsNIISherstl) on the protective methods against static electricity during processing of Polynik (Tashlinskiy) and different fibers in wool-spinning equipment; P.A. Rebinder, Engineer G. Tille (German Democratic Republic) on the application of textile-auxiliary substances in the production of artificial and synthetic fibers. During the discussion it was learned that the industry of artificial fibers has not the necessary assortment of textile-auxiliary substances which is due to a lack of production capacities, of theoretical investigations and of the experimental base for synthesizing and testing auxiliary substances. The exchange of information is also insufficient.

Card 2/3

The following specialists are mentioned in the article: Yasoyuznoye khimicheskoye obshchestvo imeni D.I. Mendeleyeva (All-Union Chemical Society imeni D.I. Mendeleyev), Gosplan SSSR (State Plan Commission of the USSR), VNIIV, NIOPIK, Institut po khimii (State Committee for Chemistry), Chemical Plant imeni VNIIZh, Khimicheskiy zavod imeni Baturina (Chemical Plant imeni Baturin), TsNIIKhB, TsNIISherstl (Central Scientific Research Institute of Wool), TsNIIshelk (Central Scientific Research Institute of Silk), GSTK.

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(A) L 12022-66 EWT(m)/EPF(n)-2/EWP(j)/T RM

ACC NR: AT5028948 SOURCE CODE: UR/0000/63/000/000/0223/0225

AUTHOR: Polonik, P. A.

ORG: none

TITLE: Use of alpha and beta emitters to combat static electricity in the textile industry

SOURCE: Vsesoyuznyy seminar po primeneniyu radioaktivnykh izotopov v izmeritel'noy tekhnike i priborostroyenii. Frunze, 1961. Radioizotopnyye metody avtomaticheskogo kontrolya (Radioisotope methods of automatic control); trudy rasshirennogo soveshchaniya, v. 1. Frunze, Izd-vo AN KirgSSR, 1963, 223-225

TOPIC TAGS: promethium, plutonium, radioactive source, textile industry machinery

ABSTRACT: A promethium-147 beta source with an 800 μC total activity was mounted on a warping machine at the Krasnaya Roza Combine to neutralize electrostatic charges. Industrial checking of the effectiveness of this source showed that the latter permits the warping of acetate silk without additional lubrication at speeds from 150 to 350 m/min. A promethium-147 beta source was also tested at the Naro-Fominsk Spinning

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ACC NR: AT5028948

Mill on two ribbon lapping machines; the number of cases of windings on cylinders or rolls was 52 with the source and 175 without it. A plutonium-239 alpha source with an activity of 2.5 μC was tried at the Krasnaya Roza Combine on a Sellers shearing machine and found to be very effective in neutralizing the electric charge. A 10 μC plutonium-239 source was permanently installed on the warping machine at the Krasnaya Roza Combine.

SUB CODE: 14/ SUBM DATE: 21Mar63/ ORIG REF: 000/ OTH REF: 000

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, P. A., kand. tekhn. nauk, starshiy nauchnyy sotrudnik

New type of ionizing static eliminator. Tekst. prom. 23 no.3: 82-85 Mr '63. (MIRA 16:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut shelkovoy promyshlennosti (TSNIIShelka).

(Textile machinery—Electric properties)
(Air, Ionized—Industrial applications)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, P. A.

"The Application of Alpha and Beta Radiating Isotopes in the Electrification of the Textile Industry"

paper presented at the All-Union Seminar on the Application of Radioactive Isotopes in Measurements and Instrument Building, Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

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POLONIK, Vladimir Stepanovich; SAPRYKIN, K.V., retsenzent; SOKOLOV, V.I., red.; SOBOLEVA, Ye.M., tekhn. red.

[Applied television] Prikladnoe televidenie. Moskva, Gosenergoizdat, 1962. 156 p. (MIRA 15:12)
(Television in science) (Industrial television)

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POLONIK, V. S.

POLONIK, V. S. -- "On the Clearness of the Television Images Produced by the Synchronization of Impulses and Fluctuation Interference." Leningrad Institute of Aviation [redacted] Instrument Making, Leningrad, 1956. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

POLONIK, V. S.

В. С. Полоник

Современное состояние и перспективы применения телевидения в промышленности, науке и технике в СССР.

И. Е. Кадес

Разработка унифицированного телевизионного и научного оборудования различного назначения для телевидения

Р. Е. Быков,
С. Б. Гуревич

Процессы возникновения и коммутации в видиконе в переходном режиме

Р. Е. Быков,
С. Б. Гуревич

О влиянии апертуры луча на структуру потенциального рельефа в видиконе

11 июня

(с 10 до 16 часов)

В. А. Булавин

Студийная камера цветного телевидения

В. Н. Балитов

Аппаратура цветного телевидения для Московского телецентра

28

В. Н. Ефимов

Совместность систем цветного телевидения с вы-сокой частотой, выполненных для стандартов ОИР и МККР

Г. Н. Соколов

Преобразование стандартов цветного телевидения

11 июня

(с 18 до 22 часов)

О. В. Еленин-Чилая

Общий комплекс измерений в магистральных каналах цветного телевидения

Л. Н. Шварцман,
Л. Л. Сударевский

Промежуточные устройства цветного телевидения

А. Н. Шлам

Выбор равносигнального белого цвета для системы цветного и черно-белого телевидения

А. Г. Бурлаков,
В. М. Эрлихович

Коррекция искажений цветов в цветном телевизионном изображении при передаче кинофильмов

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report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNORIE), Moscow, 8-12 June. 1959

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AUTHOR: Polonnik, I.A.

TITLE: Radioactive radiation as a source for air ionization to neutralize electrostatic charges in synthetic fiber processing

PERIODICAL: Přehled technické a hospodářské literatury, Energetika a elektrotechnika, v. 19, no. 3, 1962, 132, abstract # E 62-1792. Gostoptekhizdat, Moscow, 1961, STK II-182721

TEXT: This item is a part of a collection (pp54-58) entitled in Russian Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR (Radioactive isotopes and nuclear radiation in the national economy of the USSR), Volume II. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820008-4

USSR/Electronics - Oscillator Oct 5[illegible]

"Generators of Subsonic Frequencies," D. Ye. Polonnikov and K. E. Erglis

"Zhur Tekh Fiz" Vol 22, No 10, pp 1677-1686

Authors consider the peculiarities of operation of RC oscillators in the subsonic range of frequencies. Describe two experimentally verified circuit schemes for voltage generators in the range of frequencies 0.05 to 50 cps. Variation in oscillator frequency does not exceed 0.05%, and variation of amplitude does not exceed 0.2% for fluctuations in the supply voltage of 5 to 10% and during change-over of frequency over the entire range. Cite A. M. Bonch-Bruyevich, K. F. Teodorchik (1948).

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